



**COMMON COURSE OUTLINE: Course discipline/number/title: AMT 1740: Ignition Theory**

**A. CATALOG DESCRIPTION**

- 1. Credits: 2**
- 2. Hours/Week: 2**
- 3. Prerequisites (if any):** None
- 4. Co-requisites (if any):** None
- 5. MnTC Goals (if any):** NA

This course covers the design, function, diagnosis, and repair steps of conventional and electronic ignition systems.  
Recommended Entry Skills/Knowledge: High School Diploma/GED.

**B. DATE LAST REVISED (use current date):** April, 1997

**C. OUTLINE OF MAJOR CONTENT AREAS:**

1. History and Design of Ignition Systems
2. Design and Function of Current Ignition Systems
3. Ignition Timing Factors
4. Diagnosis and Repair of Ignition Systems
5. Ignition Oscilloscope Analyzers

**D. LEARNING OUTCOMES (GENERAL):** The student will be able to:

1. Describe ignition system operation.
2. Describe various ignition designs.
3. List repair and diagnosis steps.
4. Evaluate ignition oscilloscope patterns.
5. Explain ignition timing procedures.

**E. LEARNING OUTCOMES (MNTC):** NA

**F. METHODS FOR EVALUATION OF STUDENT LEARNING:**

1. Quizzes
2. Tests
3. Assignments
4. Worksheets

**G. SPECIAL INFORMATION (if any):** None